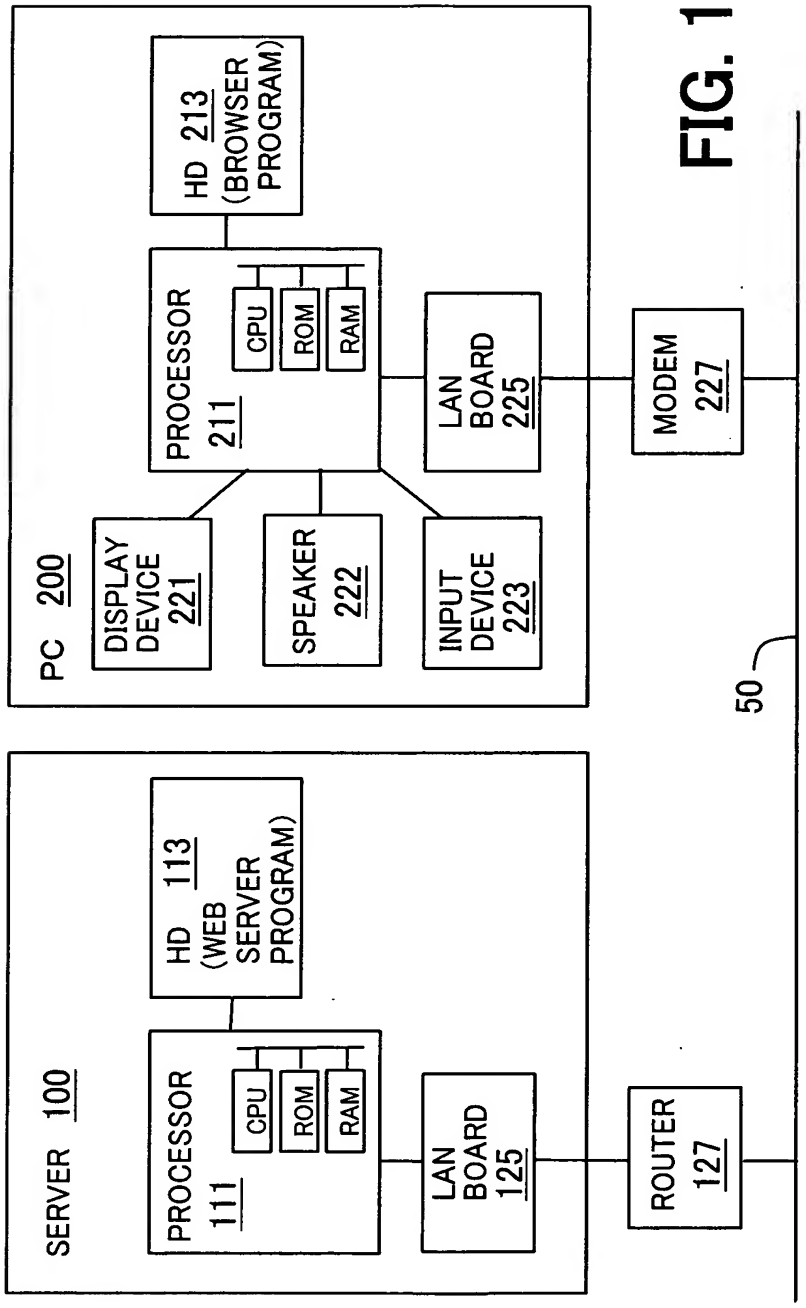
PC 200
DISPLAY DEVICE 221
SPEAKER 222
INPUT DEVICE 223
PROCESSOR 211
CPU
ROM
RAM
HD 213 (BROWSER PROGRAM)
LAN BOARD 225
MODEM 227
50
SERVER 100
PROCESSOR 111
CPU
ROM
RAM
HD 113 (WEB SERVER PROGRAM)
LAN BOARD 125
ROUTER 127

FIG. 1

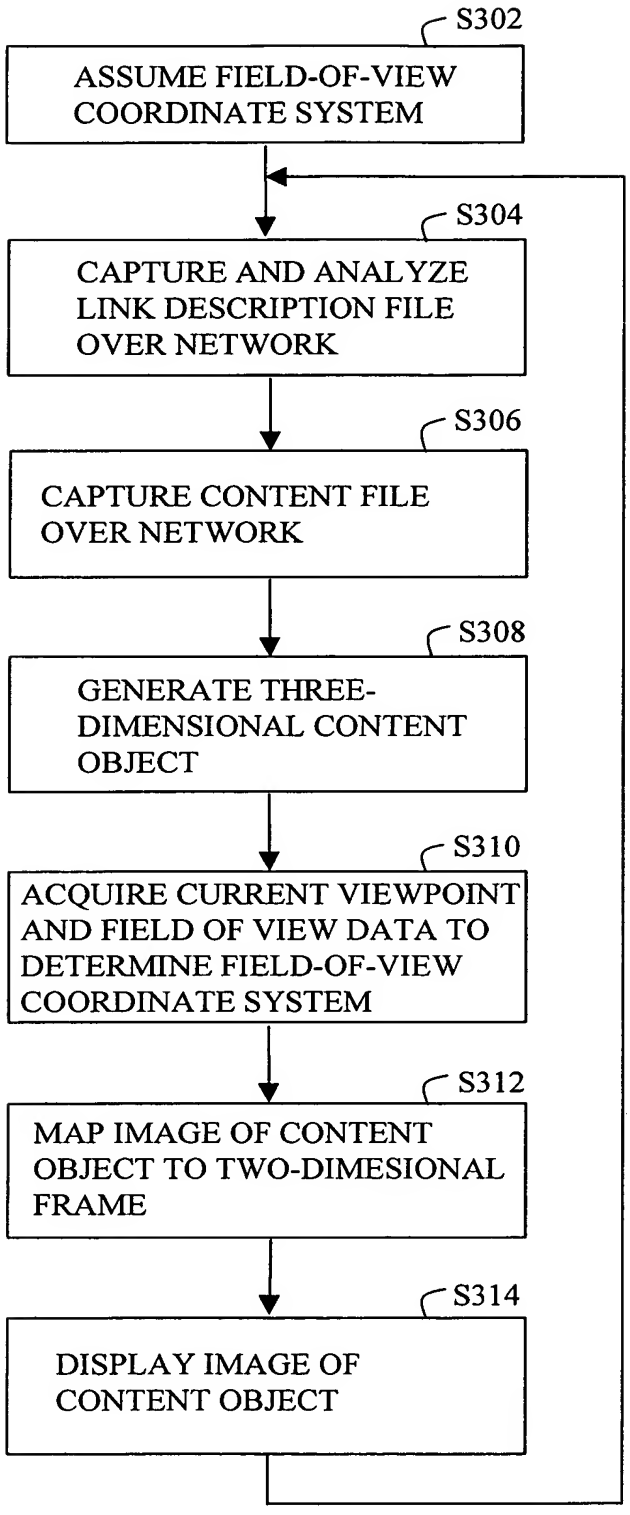
S302
ASSUME FIELD-OF-VIEW COORDINATE SYSTEM
S304
CAPTURE AND ANALYZE LINK DESCRIPTION FILE OVER NETWORK
S306
CAPTURE CONTENT FILE OVER NETWORK
S308
GENERATE THREE-DIMENSIONAL CONTENT OBJECT
S310
ACQUIRE CURRENT VIEWPOINT AND FIELD OF VIEW DATA TO DETERMINE FIELD-OF-VIEW COORDINATE SYSTEM
S312
MAP IMAGE OF CONTENT OBJECT TO TWO-DIMESIONAL FRAME
S314
DISPLAY IMAGE OF CONTENT OBJECT

FIG. 2

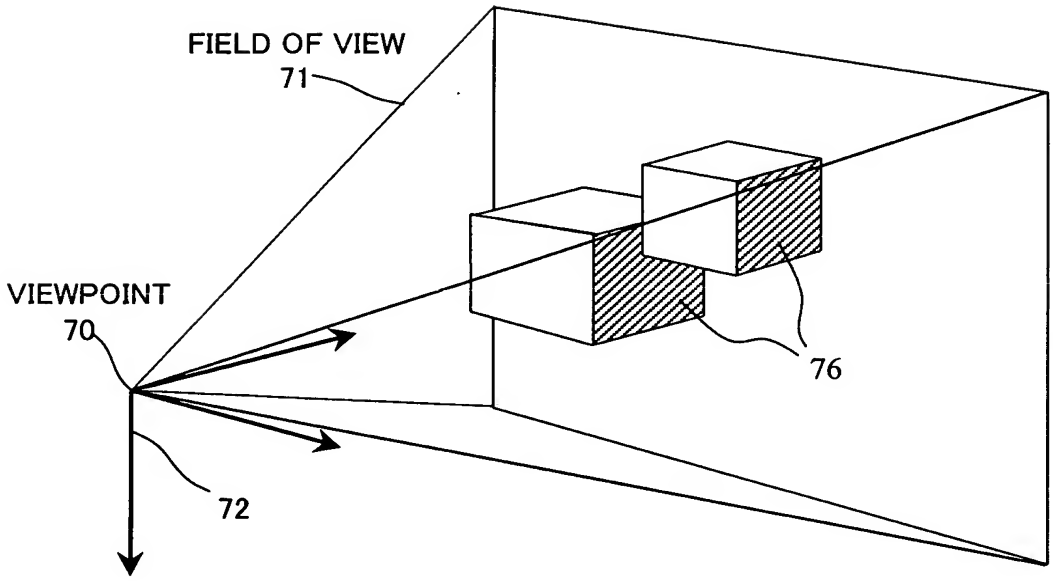

FIG. 3

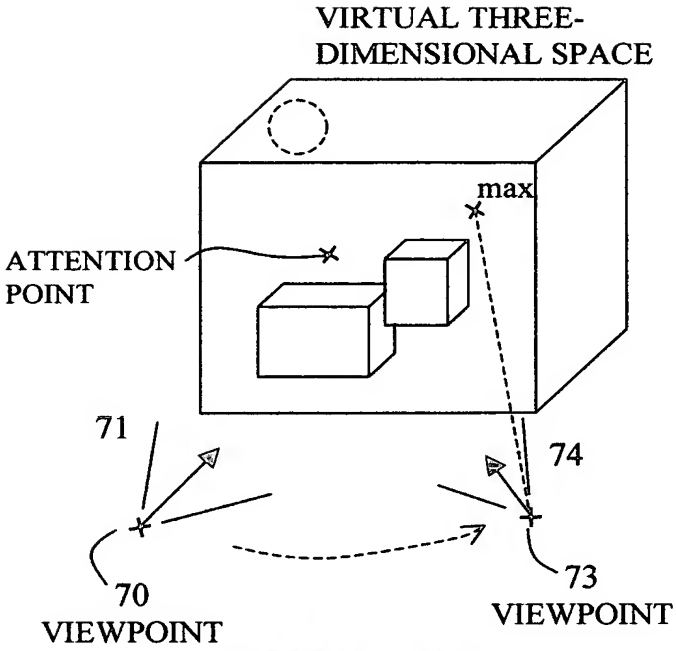
VIRTUAL THREE-
DIMENSIONAL SPACE
max
ATTENTION
POINT
71
74
70
VIEWPOINT
73
VIEWPOINT

FIG. 4

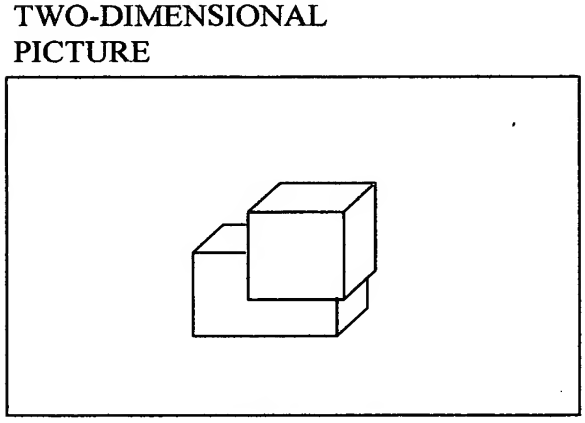
TWO-DIMENSIONAL
PICTURE

FIG. 5

File: example1.xml

```
<Image position-x="10" position-y="20" position-z="30"
rotation="40.0" tilt="50.0" size-x="70" size-y="80"
source="http://www.fujitsu.com/ex/picture1.jpg"/>

<Link position-x="200" position-y="210" position-z="220"
rotation="10.0" tilt="20.0" scale="0.5"
source="http://www.fujitsu.com/ex/example2.xml"/>
```

FIG. 6

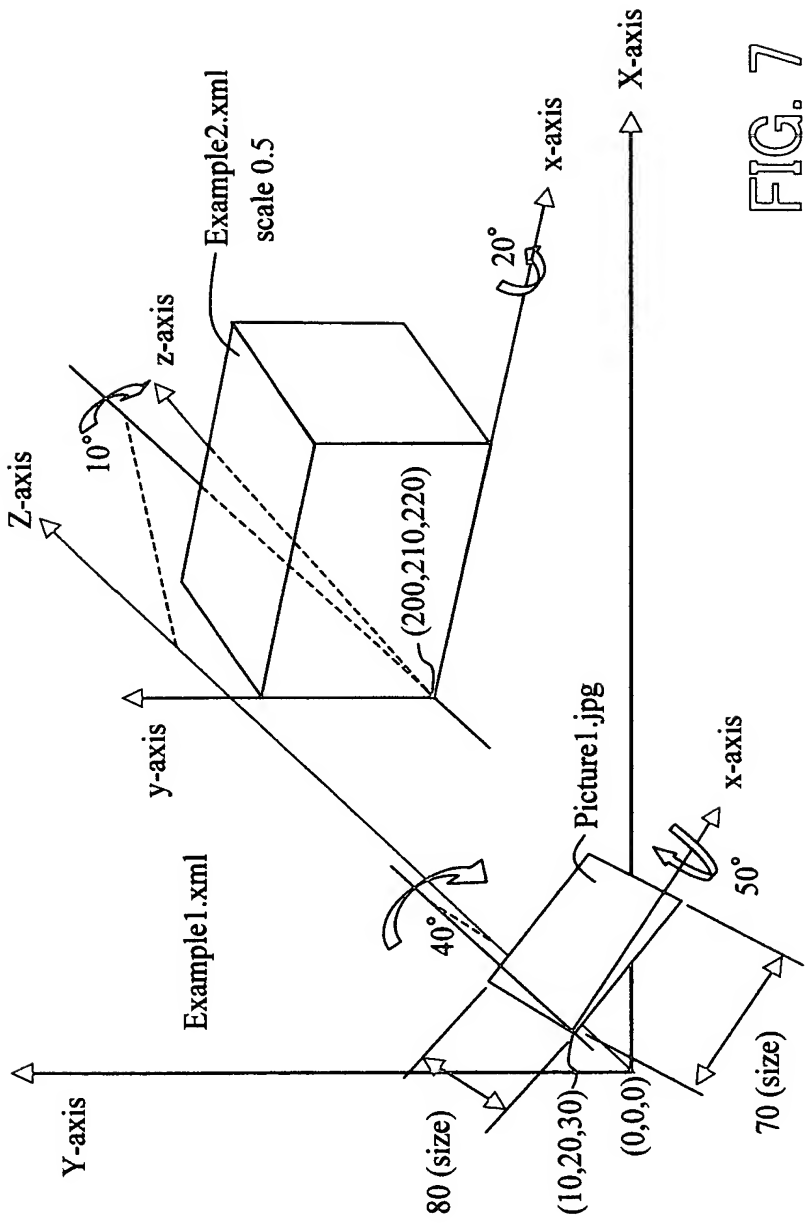
Y-axis
Example1.xml
80 (size)
40°
Picture1.jpg
(10,20,30)
(0,0,0)
x-axis
50°
70 (size)
X-axis
x-axis
20°
Example2.xml
scale 0.5
z-axis
10°
Z-axis
y-axis
(200,210,220)

FIG. 7

File: example3.xml

```
<Level distmax="200" distmin="0">

    <Link position-x="10" position-y="20" position-z="30"
    rotation="40.0" tilt="50.0" scale="80"
    source="http://www.fujitsu.com/ex/example6.xml"/>

    <SubLink position-x="10" position-y="20" position-z="30"
    rotation="40.0" tilt="50.0" scale="80"
    source="http://www.fujitsu.com/ex/example6mini.xml"/>

  </Level>
```

FIG. 8

File: example4.xml

```
<Group>

    <Link position-x="10" position-y="20" position-z="30"
    rotation="40.0" tilt="50.0" scale="80" order="0"
    source="http://www.fujitsu.com/ex/example7a.xml"/>

    <Link position-x="10" position-y="20" position-z="30"
    rotation="40.0" tilt="50.0" scale="80" order="1"
    source="http://www.fujitsu.com/ex/example7b.xml"/>

    <Link position-x="10" position-y="20" position-z="30"
    rotation="40.0" tilt="50.0" scale="80" order="2"
    source="http://www.fujitsu.com/ex/example7c.xml"/>

  </Group>
```

FIG. 9

File: example5.xml

```
<ViewPoint position-x="50" position-y="50" position-z="50"/>
```

FIG. 10

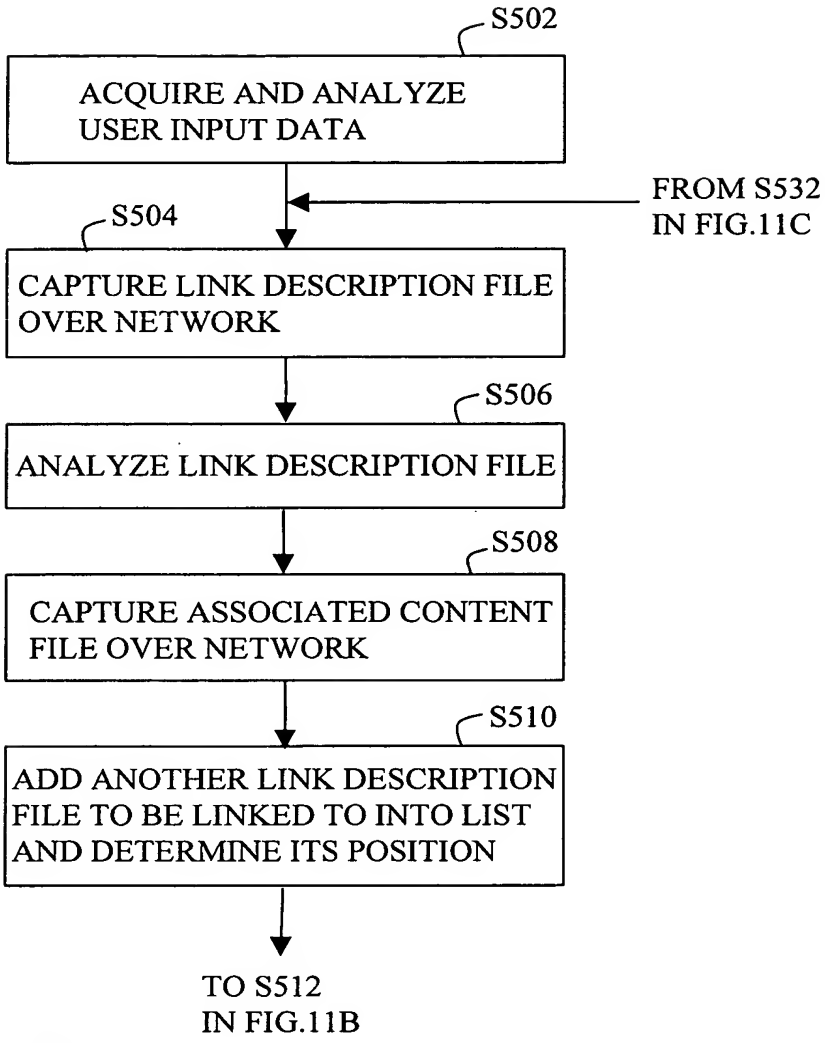
S502
ACQUIRE AND ANALYZE USER INPUT DATA
FROM S532 IN FIG.11C
S504
CAPTURE LINK DESCRIPTION FILE OVER NETWORK
S506
ANALYZE LINK DESCRIPTION FILE
S508
CAPTURE ASSOCIATED CONTENT FILE OVER NETWORK
S510
ADD ANOTHER LINK DESCRIPTION FILE TO BE LINKED TO INTO LIST AND DETERMINE ITS POSITION
TO S512 IN FIG.11B

FIG. 11A

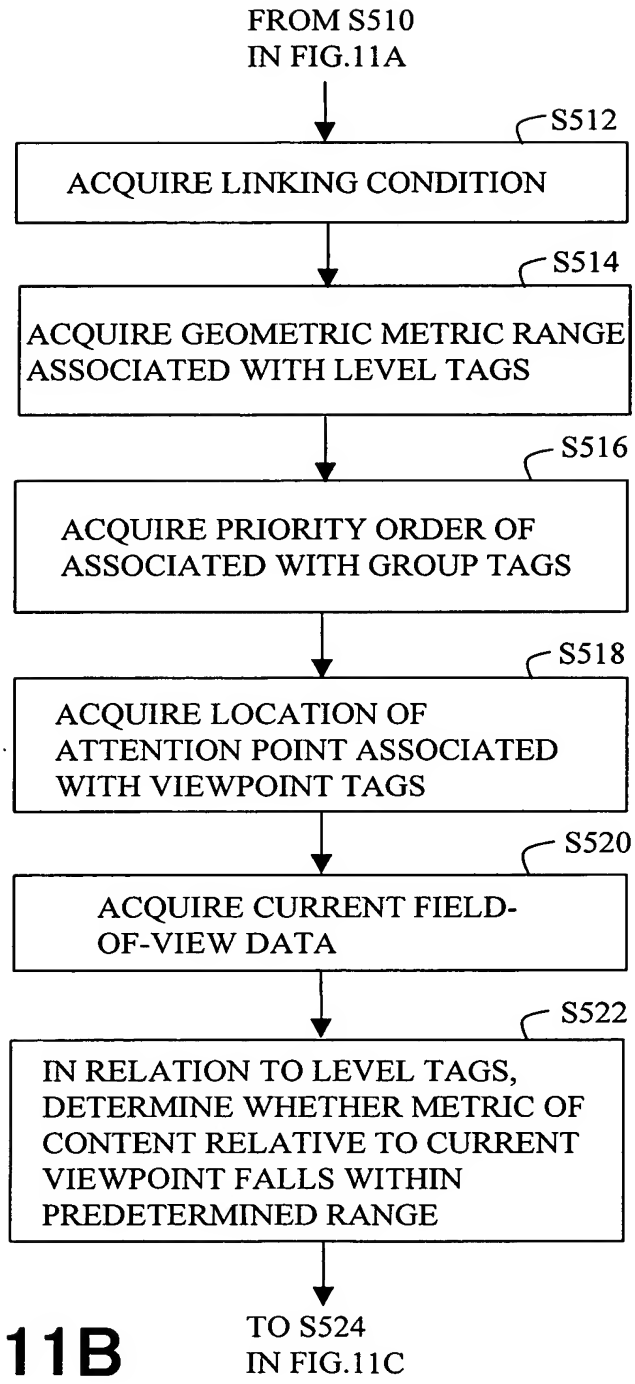
FROM S510
IN FIG.11A
S512
ACQUIRE LINKING CONDITION
S514
ACQUIRE GEOMETRIC METRIC RANGE ASSOCIATED WITH LEVEL TAGS
S516
ACQUIRE PRIORITY ORDER OF ASSOCIATED WITH GROUP TAGS
S518
ACQUIRE LOCATION OF ATTENTION POINT ASSOCIATED WITH VIEWPOINT TAGS
S520
ACQUIRE CURRENT FIELD-OF-VIEW DATA
S522
IN RELATION TO LEVEL TAGS, DETERMINE WHETHER METRIC OF CONTENT RELATIVE TO CURRENT VIEWPOINT FALLS WITHIN PREDETERMINED RANGE
TO S524
IN FIG.11C

FIG. 11B

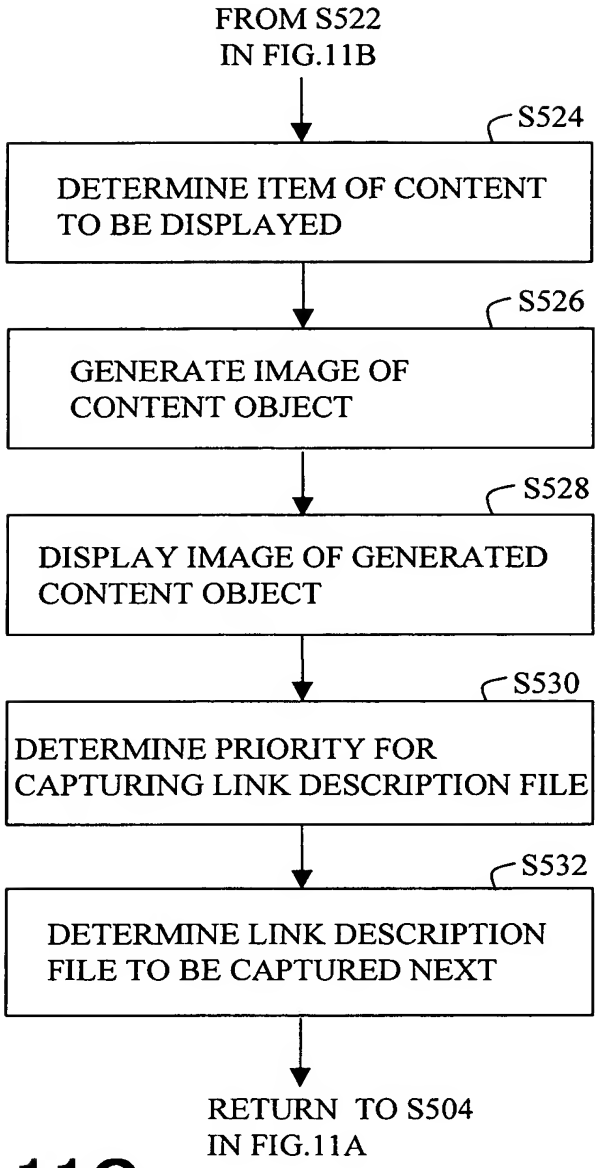
FROM S522
IN FIG.11B
S524
DETERMINE ITEM OF CONTENT TO BE DISPLAYED
S526
GENERATE IMAGE OF CONTENT OBJECT
S528
DISPLAY IMAGE OF GENERATED CONTENT OBJECT
S530
DETERMINE PRIORITY FOR CAPTURING LINK DESCRIPTION FILE
S532
DETERMINE LINK DESCRIPTION FILE TO BE CAPTURED NEXT
RETURN TO S504
IN FIG.11A

FIG. 11C